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training<and>fitness function<and>genetic Search

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1 **Designing neural network explanation facilities using genetic algorithms**
Eberhart, R.C.; Dobbins, R.W.;
Neural Networks, 1991. 1991 IEEE International Joint Conference on , 18-21 Nov. 1991
Pages:1758 - 1763 vol.2

[Abstract] [PDF Full-Text (324 KB)] IEEE CNF

2 **A new hybrid neural-genetic methodology for improving learning**
Likartsis, A.; Vlachavas, I.; Tsoukalas, L.H.;
Tools with Artificial Intelligence, 1997. Proceedings., Ninth IEEE International Conference on , 3-8 Nov. 1997
Pages:32 - 36

[Abstract] [PDF Full-Text (388 KB)] IEEE CNF

3 **Evolutionary generation and training of recurrent artificial neural networks**
Santos, J.; Duro, R.J.;
Evolutionary Computation, 1994. IEEE World Congress on Computational Intelligence., Proceedings of the First IEEE Conference on , 27-29 June 1994
Pages:759 - 763 vol.2

[Abstract] [PDF Full-Text (344 KB)] IEEE CNF

4 **Intelligent processing of time series using neuro-fuzzy adaptive genetic approach**
Palit, A.K.; Popovic, D.;
Industrial Technology 2000. Proceedings of IEEE International Conference on , Volume: 2 , 19-22 Jan. 2000

Pages:141 - 146 vol.1

[Abstract] [PDF Full-Text (520 KB)] IEEE CNF

5 **Supervised scaled regression clustering: an alternative to neural networks**
Embrechts, M.J.; Devogelaere, D.; Rijckaert, M.;
Neural Networks, 2000. IJCNN 2000, Proceedings of the IEEE-INNS-ENNS International Joint Conference on , Volume: 6 , 24-27 July 2000
Pages:571 - 576 vol.6

[Abstract] [PDF Full-Text (392 KB)] IEEE CNF

6 **Evolving rules from neural networks trained on continuous data**
Keedwell, E.; Narayanan, A.; Savic, D.;
Evolutionary Computation, 2000. Proceedings of the 2000 Congress on , Volume: 1 , 16-19 July 2000
Pages:639 - 645 vol.1

[Abstract] [PDF Full-Text (508 KB)] IEEE CNF

7 **Evolutionary arbitrage for FTSE-100 index options and futures**
Markose, S.; Tsang, E.; Er, H.; Salhi, A.;
Evolutionary Computation, 2001. Proceedings of the 2001 Congress on , Volume: 1 , 27-30 May 2001
Pages:275 - 282 vol. 1

[Abstract] [PDF Full-Text (672 KB)] IEEE CNF

8 **Evolutionary arbitrage for FTSE-100 index options and futures**
Markose, S.; Tsang, E.; Hakan Er; Salhi, A.;
Evolutionary Computation, 2001. Proceedings of the 2001 Congress on , Volume: 1 , 27-30 May 2001
Pages:418 - 425 vol. 1

[Abstract] [PDF Full-Text (704 KB)] IEEE CNF

9 **Rule generation from a rotation-invariant neural pattern recognition system**
Fukumi, M.; Nakaura, K.; Akamatsu, N.;
Neural Information Processing, 1999. Proceedings. ICONIP '99. 6th International Conference on , Volume: 2 , 16-20 Nov. 1999
Pages:706 - 711 vol.2

[Abstract] [PDF Full-Text (232 KB)] IEEE CNF

10 **GA-based approaches for finding the minimum reference set for nearest neighbor classification**
Nakashirna, T.; Ishibuchi, H.;
Evolutionary Computation Proceedings, 1998. IEEE World Congress on Computational Intelligence., The 1998 IEEE International Conference on , 4-9 May 1998
Pages:709 - 714

[Abstract] [PDF Full-Text (488 KB)] IEEE CNF

11 **Rule extraction from neural networks trained using evolutionary algorithms with deterministic mutation**
Fukumi, M.; Akamatsu, N.;
Neural Networks Proceedings, 1998. IEEE World Congress on Computational Intelligence. The 1998 IEEE International Joint Conference on , Volume: 1 , 4-9 May 1998
Pages:686 - 689 vol.1

[Abstract] [PDF Full-Text (344 KB)] IEEE CNF

12 **The structure optimization of radial basis probabilistic neural networks based on genetic algorithms**
Wenbo Zhao; De-Shuang Huang; Ge Yunjian;
Neural Networks, 2002. IJCNN '02. Proceedings of the 2002 International Joint Conference on , Volume: 2 , 12-17 May 2002
Pages:1086 - 1091

[Abstract] [PDF Full-Text (561 KB)] IEEE CNF

13 **Enhancing genetic feature selection through restricted search and Walsh analysis**
Salcedo-Sanz, S.; Camps-Valls, G.; Perez-Cruz, F.; Sepulveda-Sanchis, J.; Bousono-Calzon, C.;
Systems, Man and Cybernetics, Part C, IEEE Transactions on , Volume: 34 , Issue: 4 , Nov. 2004
Pages:398 - 406

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14 **Evolutionary design of a fuzzy classifier from data**
Xiaoguang Chang; Lilly, J.H.;
Systems, Man and Cybernetics, Part B, IEEE Transactions on , Volume: 34 , Issue: 4 , Aug. 2004
Pages:1894 - 1906

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15 **Extraction and use of neural network models in automated synthesis of operational amplifiers**
Wolfe, G.; Vemuri, R.;
Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions on , Volume: 22 , Issue: 2 , Feb. 2003
Pages:198 - 212

[Abstract] [PDF Full-Text (912 KB)] IEEE JNL

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16 **VGA-Classifier: design and applications**
Bandyopadhyay, S.; Murthy, C.A.; Pal, S.K.;
Systems, Man and Cybernetics, Part B, IEEE Transactions on , Volume: 30 , Issue: 6 , Dec. 2000
Pages:890 - 895

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17 **GA-based fuzzy reinforcement learning for control of a magnetic bearing system**
Chin-Teng Lin; Chong-Ping Jou;
Systems, Man and Cybernetics, Part B, IEEE Transactions on , Volume: 30 , Issue: 2 , April 2000
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[Abstract] [PDF Full-Text (324 KB)] IEEE JNL

18 **Evolutionary pursuit and its application to face recognition**
Liu, C.; Wechsler, H.;
Pattern Analysis and Machine Intelligence, IEEE Transactions on , Volume: 22 , Issue: 6 , June 2000
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[Abstract] [PDF Full-Text (1296 KB)] IEEE JNL

19 **Generating fuzzy rules for target tracking using a steady-state genetic algorithm**
Chan, K.C.C.; Lee, V.; Leung, H.;
Evolutionary Computation, IEEE Transactions on , Volume: 1 , Issue: 3 , Sept. 1997

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[Abstract] [PDF Full-Text (292 KB)] IEEE JNL

20 **GMD: a new CDMA multiuser detection technique using an evolutionary algorithm**
Abedi, S.; Tafazolli, R.;
Communications, IEE Proceedings- , Volume: 148 , Issue: 6 , Dec. 2001
Pages:393 - 399

[Abstract] [PDF Full-Text (384 KB)] IEE JNL

21 **Genetic algorithm for feature extraction in landmine detection**
Antonic, D.;
Communications, Circuits and Systems, 2004. ICCCAS 2004. 2004 International Conference on , Volume: 2 , 27-29 June 2004
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22 **Computational enhancement of genetic algorithm via control device pre-selection mechanism for power system reactive power/voltage control**
Bakare, G.A.; Aliyu, U.O.; Krost, G.; Venayagamoorthy, G.K.;
Power Engineering Society General Meeting, 2003, IEEE , Volume: 3 , 13-17 July 2003
Pages: 703 Vol. 3

[Abstract] [PDF Full-Text (499 KB)] IEEE CNF

23 **Genetic evolution of neural network based on a new three-parents crossover operator**
Srivastava, A.K.; Srivastava, S.K.; Shukla, K.K.;
Industrial Technology 2000. Proceedings of IEEE International Conference on , Volume: 2 , 19-22 Jan. 2000
Pages:153 - 158 vol.1

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24 **Fuzzy controller design using genetic algorithms**
Wen-Ruey Hwang; Zein-Sabatto, S.;
Southeastcon '97. 'Engineering new New Century'., Proceedings. IEEE , 12-14 April 1997
Pages:6 - 10

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25 **Model-based evolutionary computing: a neural network and genetic algorithm architecture**
Bull, L.;
Evolutionary Computation, 1997., IEEE International Conference on , 13-16 April 1997
Pages:611 - 616

[Abstract] [PDF Full-Text (468 KB)] IEEE CNF

26 **An evolutionary programming-based probabilistic neural networks construction technique**
Sarkar, M.; Yegnanarayana, B.;
Neural Networks,1997., International Conference on , Volume: 1 , 9-12 June 1997
Pages:456 - 461 vol.1

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27 **A hybrid artificial neural network/genetic algorithm approach to on-line switching operations for the optimization of electrical power systems**
Arjona, D.; Lay, R.K.; Harrington, R.J.;
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Pages:2286 - 2290 vol.4

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28 **The use of genetic algorithms for advanced instrument fault detection and isolation schemes**
Betta, G.; Liguori, C.; Pietrosanto, A.;
Instrumentation and Measurement Technology Conference, 1996. IMTC-96. Conference Proceedings. 'Quality Measurements: The Indispensable Bridge between Theory and Reality'., IEEE , Volume: 2 , 1996
Pages:1129 - 1134 vol.2

[Abstract] [PDF Full-Text (568 KB)] IEEE CNF

29 **Ensemble structure of multiple local sensor fusion machine using evolutional pruning technique [an application to heading and rate of turn estimation]**
Pariyapong, V.; Parnichkun, M.;
Industrial Technology, 2002. IEEE ICIT '02. 2002 IEEE International Conference on , Volume: 1 , 11-14 Dec. 2002
Pages:421 - 426 vol.1

[Abstract] [PDF Full-Text (460 KB)] IEEE CNF

30 **Training finite state machines to improve PCR primer design**
Ashlock, D.; Wittrock, A.; Tsui-Jung Wen;
Evolutionary Computation, 2002. CEC '02. Proceedings of the 2002 Congress on , Volume: 1 , 12-17 May 2002
Pages:13 - 18

[Abstract] [PDF Full-Text (638 KB)] IEEE CNF

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31 **Planning a collision avoidance model for ship using genetic algorithm**
Xiao-Ming Zeng; Ito, M.;
Systems, Man, and Cybernetics, 2001 IEEE International Conference on , Volume: 4 , 7-10 Oct. 2001
Pages:2355 - 2360 vol.4

[Abstract] [PDF Full-Text (410 KB)] **IEEE CNF**

32 **An example-based approach for evolving robot controllers**
Wei-Po Lee; Shu-Fang Lai;
Systems, Man, and Cybernetics, 1999. IEEE SMC '99 Conference Proceedings. 1999 IEEE International Conference on , Volume: 5 , 12-15 Oct. 1999
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[Abstract] [PDF Full-Text (444 KB)] **IEEE CNF**

33 **Genetic algorithms based self-tuning regulator**
Dangprasert, P.; Avatchanakorn, V.;
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Pages:444

[Abstract] [PDF Full-Text (396 KB)] **IEEE CNF**

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1 Special issue on learning from imbalanced datasets: A multistrategy approach for digital text categorization from imbalanced documents

M. Dolores del Castillo, José Ignacio Serrano

June 2004 **ACM SIGKDD Explorations Newsletter**, Volume 6 Issue 1

Full text available: pdf(338.63 KB) Additional Information: full citation, abstract, references, citings

The goal of the research described here is to develop a multistrategy classifier system that can be used for document categorization. The system automatically discovers classification patterns by applying several empirical learning methods to different representations for preclassified documents belonging to an imbalanced sample. The learners work in a parallel manner, where each learner carries out its own feature selection based on evolutionary techniques and then obtains a classification mode ...

Keywords: feature selection, genetic algorithms, multistrategy learning

2 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available: pdf(636.24 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

3 Face recognition: A literature survey

W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available: pdf(4.28 MB) Additional Information: full citation, abstract, references, index terms

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

4 Personalization of search engine services for effective retrieval and knowledge management

Weiguo Fan, Michael D. Gordon, Praveen Pathak

December 2000 **Proceedings of the twenty first international conference on Information systems**

Full text available: pdf(174.07 KB) Additional Information: full citation, references, citings, index terms

5 Applications: An evolutionary optimization approach for 3D human head model classification

Hau-San Wong, Kent K. T. Cheung, Horace H. S. Ip

November 2003 **Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval**

Full text available: pdf(677.93 KB) Additional Information: full citation, abstract, references, index terms

Classification of 3-D head models based on their shape attributes for subsequent indexing and retrieval are important in many applications, as in the selection and generation of human characters in virtual scenes, and the composition of morphing sequences requiring a qualitatively similar target head model. Simple feature representations are more efficient but may not be adequate for distinguishing the subtly different head model classes. In view of these, we propose an optimization approach bas ...

Keywords: 3D head model, evolutionary computation, genetic algorithm, multiple classifier system, pattern classification

6 Evolutionary algorithms in data mining: multi-objective performance modeling for direct marketing

Siddhartha Bhattacharyya

August 2000 **Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(115.20 KB) Additional Information: full citation, references, citings, index terms

Keywords: Pareto-optimal models, data mining, database marketing, evolutionary computation, multiple objectives

7 Formal models-2: Tuning before feedback: combining ranking discovery and blind feedback for robust retrieval

Weiguo Fan, Ming Luo, Li Wang, Wensi Xi, Edward A. Fox

July 2004 **Proceedings of the 27th annual international conference on Research and**

development in information retrieval

Full text available: pdf(306.72 KB) Additional Information: full citation, abstract, references, index terms

Both ranking functions and user queries are very important factors affecting a search engine's performance. Prior research has looked at how to improve ad-hoc retrieval performance for existing queries while tuning the ranking function, or modify and expand user queries using a fixed ranking scheme using blind feedback. However, almost no research has looked at how to combine ranking function tuning and blind feedback together to improve ad-hoc retrieval performance. In this paper, we look at th ...

Keywords: blind feedback, genetic programming, information retrieval, intelligent information retrieval, query expansion, ranking function, search engine

8 The evolutionary capacity of protein structures

Leonid Meyerguz, David Kempe, Jon Kleinberg, Ron Elber

March 2004 **Proceedings of the eighth annual international conference on Computational molecular biology**

Full text available: pdf(990.75 KB) Additional Information: full citation, abstract, references, index terms

In nature, one finds large collections of different protein sequences exhibiting roughly the same three-dimensional structure, and this observation underpins the study of structural protein families. In studying such families at a global level, a natural question to ask is how close to "optimal" the native sequences are in terms of their energy. We therefore define and compute the *evolutionary capacity* of a protein structure as the total number of sequences whose energy in the structure i ...

Keywords: approximate counting, evolutionary networks, protein structure, rapidly mixing Markov chains

9 The use of dynamic contexts to improve casual internet searching

Gondy Leroy, Ann M. Lally, Hsinchun Chen

July 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 3

Full text available: pdf(231.61 KB) Additional Information: full citation, abstract, references, index terms

Research has shown that most users' online information searches are suboptimal. Query optimization based on a relevance feedback or genetic algorithm using dynamic query contexts can help casual users search the Internet. These algorithms can draw on implicit user feedback based on the surrounding links and text in a search engine result set to expand user queries with a variable number of keywords in two manners. Positive expansion adds terms to a user's keywords with a Boolean "and," negative ...

Keywords: Information retrieval, Internet, automatic query expansion, genetic algorithm, implicit user feedback, personalization, relevance feedback

10 On genetic algorithms

Eric B. Baum, Dan Boneh, Charles Garrett

July 1995 **Proceedings of the eighth annual conference on Computational learning theory**

Full text available: pdf(1.13 MB) Additional Information: full citation, references, index terms

11 Evolving and messaging decision-making agents

Edmund S. Yu

May 2001 **Proceedings of the fifth international conference on Autonomous agents**

Full text available: pdf(240.53 KB) Additional Information: full citation, abstract, references, index terms

In this paper we describe our neurogenetic approach to developing a multi- agent decision support system which assists users in gathering, merging, analyzing, and using information to assess risks and make recommendations in situations that may require tremendous amounts of time and attention of the users. In Phase I of this project, called the EMMA project, we demonstrated the feasibility of a set of solutions to various problems by building an intelligent agent application that makes reco ...

Keywords: adaptation and learning, agent communication languages, evolution of agents, information agents, multi-agent communication/collaboration

12 Linear discriminant analysis using genetic algorithms

Aaron H. Konstam

March 1993 **Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing: states of the art and practice**

Full text available: pdf(487.93 KB) Additional Information: full citation, references, citings, index terms, review

13 Special issue on on inductive logic programming: Relational learning as search in a critical region

Marco Botta, Attilio Giordana, Lorenza Saitta, Michèle Sebag

December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: pdf(300.28 KB) Additional Information: full citation, abstract, citings, index terms

Machine learning strongly relies on the covering test to assess whether a candidate hypothesis covers training examples. The present paper investigates learning relational concepts from examples, termed relational learning or inductive logic programming. In particular, it investigates the chances of success and the computational cost of relational learning, which appears to be severely affected by the presence of a phase transition in the covering test. ...

14 Book reviews

December 1999 **intelligence**, Volume 10 Issue 4

Full text available: pdf(385.82 KB) html(66.61 KB) Additional Information: full citation, references, index terms

15 Evolving intelligent text-based agents

Edmund S. Yu, Ping C. Koo, Elizabeth D. Liddy

June 2000 **Proceedings of the fourth international conference on Autonomous agents**

Full text available: pdf(1.14 MB) Additional Information: full citation, references, citings, index terms

Keywords: evolution of agents, information agents, learning and adaptation, multi-agent teams

16 Unsupervised learning of the morphology of a natural language

John Goldsmith

June 2001 **Computational Linguistics**, Volume 27 Issue 2

Full text available: pdf(3.19 MB) Additional Information: full citation, abstract, references
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This study reports the results of using minimum description length (MDL) analysis to model unsupervised learning of the morphological segmentation of European languages, using corpora ranging in size from 5,000 words to 500,000 words. We develop a set of heuristics that rapidly develop a probabilistic morphological grammar, and use MDL as our primary tool to determine whether the modifications proposed by the heuristics will be adopted or not. The resulting grammar matches well the analysis that ...

17 A QoS-Provisioning neural fuzzy connection admission controller for multimedia high-speed networks
Ray-Guang Cheng, Chung-Ju Chang, Li-Fong Lin
February 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 1

Full text available: pdf(342.90 KB) Additional Information: full citation, references, citings, index terms

18 Learning methods to combine linguistic indicators: improving aspectual classification and revealing linguistic insights
Eric V. Siegel, Kathleen R. McKeown
December 2000 **Computational Linguistics**, Volume 26 Issue 4

Full text available: pdf(1.96 MB) Additional Information: full citation, abstract, references
Publisher Site

Aspectual classification maps verbs to a small set of primitive categories in order to reason about time. This classification is necessary for interpreting temporal modifiers and assessing temporal relationships, and is therefore a required component for many natural language applications.A verb's aspectual category can be predicted by co-occurrence frequencies between the verb and certain linguistic modifiers. These frequency measures, called linguistic indicators, are chosen by linguistic insi ...

19 Learning evaluation functions to improve optimization by local search
Justin Boyan, Andrew W. Moore
September 2001 **The Journal of Machine Learning Research**, Volume 1

Full text available: pdf(643.21 KB) Additional Information: full citation, abstract

This paper describes algorithms that learn to improve search performance on large-scale optimization tasks. The main algorithm, STAGE, works by learning an evaluation function that predicts the outcome of a local search algorithm, such as hillclimbing or Walksat, from features of states visited during search. The learned evaluation function is then used to bias future search trajectories toward better optima on the same problem. Another algorithm, X-STAGE, transfers previously learned evaluation ...

20 Finknn: a fuzzy interval number k-nearest neighbor classifier for prediction of sugar production from populations of samples
Vassilios Petridis, Vassilis G. Kaburlasos
December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: pdf(360.76 KB) Additional Information: full citation, abstract, index terms

This work introduces *FINkNN*, a k-nearest-neighbor classifier operating over the metric lattice of conventional interval-supported convex fuzzy sets. We show that for problems involving populations of measurements, data can be represented by fuzzy interval numbers (FINs) and we present an algorithm for constructing FINs from such populations. We then

present a lattice-theoretic metric distance between FINs with arbitrary-shaped membership functions, which forms the basis for *FINkNN* ...

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21 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1997 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems**, Volume 28 Issue 1

Full text available: pdf(7.24 MB) Additional Information: full citation, citings

22 Writing the web: Mining topic-specific concepts and definitions on the web

Bing Liu, Chee Wee Chin, Hwee Tou Ng

May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available: pdf(245.66 KB) Additional Information: full citation, abstract, references, citings, index terms

Traditionally, when one wants to learn about a particular topic, one reads a book or a survey paper. With the rapid expansion of the Web, learning in-depth knowledge about a topic from the Web is becoming increasingly important and popular. This is also due to the Web's convenience and its richness of information. In many cases, learning from the Web may even be essential because in our fast changing world, emerging topics appear constantly and rapidly. There is often not enough time for someone ...

Keywords: definition mining, domain concept mining, information integration,'knowledge compilation, web content mining

23 Modeling dependencies in protein-DNA binding sites

Yoseph Barash, Gal Elidan, Nir Friedman, Tommy Kaplan

April 2003 **Proceedings of the seventh annual international conference on Computational molecular biology**

Full text available: pdf(411.94 KB) Additional Information: full citation, abstract, references, citings, index terms

The availability of whole genome sequences and high-throughput genomic assays opens the door for *in silico* analysis of transcription regulation. This includes methods for discovering and characterizing the binding sites of DNA-binding proteins, such as transcription factors.

A common representation of transcription factor binding sites is a *position specific score matrix* (PSSM). This representation makes the strong assumption that binding site positions are independent of each othe ...

Keywords: DNA sequence motifs, bayesian networks, factors binding sites, transcription

24 Using a mixture of probabilistic decision trees for direct prediction of protein function

Umar Syed, Golan Yona

April 2003 **Proceedings of the seventh annual international conference on Computational molecular biology**

Full text available: pdf(306.22 KB) Additional Information: full citation, abstract, references, index terms

We study the direct relationship between basic protein properties and their function. Our goal is to develop a new tool for functional prediction that can be used to complement and support other techniques based on sequence or structure information. In order to define this new measure of similarity between proteins we collected a set of 453 features and properties that characterize proteins and are believed to be correlated and related to structural and functional aspects of proteins. Among thes ...

Keywords: decision trees, functional prediction, sequence-function relationships

25 Context-specific Bayesian clustering for gene expression data

Yoseph Barash, Nir Friedman

April 2001 **Proceedings of the fifth annual international conference on Computational biology**

Full text available: pdf(233.32 KB) Additional Information: full citation, abstract, references, citings, index terms

The recent growth in genomic data and measurement of genome-wide expression patterns allows to examine gene regulation by transcription factors using computational tools. In this work, we present a class of mathematical models that help in understanding the connections between transcription factors and functional classes of genes based on genetic and genomic data. These models represent the joint distribution of transcription factor binding sites and of expression levels of a gene in a single ...

26 Machine learning in automated text categorization

Fabrizio Sebastiani

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available: pdf(524.41 KB) Additional Information: full citation, abstract, references, citings, index terms

The automated categorization (or classification) of texts into predefined categories has witnessed a booming interest in the last 10 years, due to the increased availability of documents in digital form and the ensuing need to organize them. In the research community the dominant approach to this problem is based on machine learning techniques: a general inductive process automatically builds a classifier by learning, from a set of preclassified documents, the characteristics of the categories. ...

Keywords: Machine learning, text categorization, text classification

27 Artificial life: an opportunity to include research in the computer science curriculum

Gloria Childress Townsend, Wade Hazel

October 2001 **Journal of Computing Sciences in Colleges**, Volume 17 Issue 1

Full text available: pdf(45.38 KB) Additional Information: full citation, abstract, references, index terms

Student research and interdisciplinary work persist as desirable components of the undergraduate computer science experience; yet, few schools can afford to allocate scarce resources to these endeavors. The course described in this paper incorporates both student research and interdisciplinary work with minimal expenditure of instructor time. This is accomplished, in part, by a biologist and a computer scientist sharing instructor duties. Students receive journal articles pertaining to evolution ...

28 Test and diagnosis for complex designs: Enhancing diagnosis resolution for delay defects based upon statistical timing and statistical fault models

A. Krstic, L.-C. Wang, K.-T. Cheng, J.-J. Liou, T. M. Mak

June 2003 **Proceedings of the 40th conference on Design automation**

Full text available: pdf(101.12 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we propose a new methodology for diagnosis of delay defects in the deep sub micron domain. The key difference between our diagnosis framework and other traditional diagnosis methods lies in our assumptions of the statistical circuit timing and the statistical delay defect size. Due to the statistical nature of the problem, achieving 100% diagnosis resolution cannot be guaranteed. To enhance diagnosis resolution, we propose a 3-phase diagnosis methodology. In the first phase, our g ...

Keywords: delay ATPG, delay fault diagnosis, statistical timing models

29 Computational models: Biologically inspired rule-based multiset programming paradigm for soft-computing

E. V. Krishnamurthy, V. K. Murthy, Vikram Krishnamurthy

April 2004 **Proceedings of the first conference on computing frontiers on Computing frontiers**

Full text available: pdf(289.68 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a rule-based multiset programming paradigm, as a unifying theme for biological, chemical, DNA, physical and molecular computations. The computations are interpreted as the outcome arising out of deterministic, nondeterministic or stochastic interaction among elements in a multiset object space which includes the environment. These interactions are like chemical reactions and the evolution of the multiset can mimic the biological evolution. Since the reaction rules are inhere ...

Keywords: DNA, biologically-inspired paradigm, closed and open systems, first and second order logic, genetic and molecular computing, probabilistic rule based paradigm, soft computing

30 SIGSAM BULLETIN: Computer algebra in the life sciences

Michael P. Barnett

December 2002 **ACM SIGSAM Bulletin**, Volume 36 Issue 4

Full text available: pdf(240.15 KB) Additional Information: full citation, abstract, references

This note (1) provides references to recent work that applies computer algebra (CA) to the life sciences, (2) cites literature that explains the biological background of each application, (3) states the mathematical methods that are used, (4) mentions the benefits of CA, and (5) suggests some topics for future work.

31 Developing a generic genetic algorithm

Melvin Neville, Anaika Sibley

December 2002 **Proceedings of the 2002 annual ACM SIGAda international conference on Ada: The engineering of correct and reliable software for real-time & distributed systems using Ada and related technologies**

Full text available: pdf(240.84 KB) Additional Information: full citation, abstract, references, index terms

Genetic and evolutionary algorithms, inspired by biological processes, provide a technique for programs to "automatically" improve their parameters. We discuss the basics of the algorithms and introduce our own hybrid. The development of this hybrid and its application to a simplified problem, evolving the coefficients for the sine function in a Taylor series, presents opportunities for computer science education with respect to model-building, data structures, and language features. Students mu ...

Keywords: Ada education, artificial intelligence, data structures, evolutionary algorithm, generics, genetic algorithm, software tools, teaching, templates

32 Research papers: data/knowledge management: Reexamining *tf.idf* based information retrieval with genetic programming

Nir Oren

September 2002 **Proceedings of the 2002 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology**

Full text available: pdf(180.72 KB) Additional Information: full citation, abstract, references, index terms

The tf.idf family of vector based information retrieval schemes is very popular due to its simplicity and robustness, as well as its tractability to enhancements. This paper proposes a method to automatically perform a search for new tf.idf like schemes using genetic programming. The results of this automated search are then evaluated in a simple usage scenario. Also evaluated are the effects of using different fitness functions in the genetic programming phase.

Keywords: genetic programming, information retrieval, tf.idf

33 Reports from KDD-2001: KDD Cup 2001 report

Jie Cheng, Christos Hatzis, Hisashi Hayashi, Mark-A. Krogel, Shinichi Morishita, David Page, Jun Sese

January 2002 **ACM SIGKDD Explorations Newsletter**, Volume 3 Issue 2

Full text available: pdf(1.96 MB) Additional Information: full citation, abstract, references, citings

This paper presents results and lessons from KDD Cup 2001. KDD Cup 2001 focused on mining biological databases. It involved three cutting-edge tasks related to drug design and genomics.

Keywords: Competition, biology, drug design, genomics

34 Special issue on ICML: Learning probabilistic models of link structure

Lisa Getoor, Nir Friedman, Daphne Koller, Benjamin Taskar

March 2003 **The Journal of Machine Learning Research**, Volume 3

Full text available: pdf(479.67 KB) Additional Information: full citation, abstract, index terms

Most real-world data is heterogeneous and richly interconnected. Examples include the Web, hypertext, bibliometric data and social networks. In contrast, most statistical learning methods work with "flat" data representations, forcing us to convert our data into a form that loses much of the link structure. The recently introduced framework of *probabilistic relational models* (PRMs) embraces the object-relational nature of structured data by

capturing probabilistic interactions between att ...

35 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**
Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

36 An updated survey of GA-based multiobjective optimization techniques
Carlos A. Coello
June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2
Full text available: pdf(250.77 KB) Additional Information: full citation, abstract, references, citings, index terms

After using evolutionary techniques for single-objective optimization during more than two decades, the incorporation of more than one objective in the fitness function has finally become a popular area of research. As a consequence, many new evolutionary-based approaches and variations of existing techniques have recently been published in the technical literature. The purpose of this paper is to summarize and organize the information on these current approaches, emphasizing the importanc ...

Keywords: artificial intelligence, genetic algorithms, multicriteria optimization, multiobjective optimization, vector optimization

37 Risk analysis: New simulation methodology for risk analysis: genetic programming with monte carlo simulation for option pricing
N. K. Chidambaran
December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**
Full text available: pdf(351.90 KB) Additional Information: full citation, abstract, references

I examine the role of programming parameters in determining the accuracy of Genetic Programming for option pricing. I use Monte Carlo simulations to generate stock and option price data needed to develop a Genetic Option Pricing Program. I simulate data for two different stock price processes - a Geometric Brownian process and a Jump-Diffusion process. In the jump-diffusion setting, I seed the Genetic Program with the Black-Scholes equation as a starting approximation. I find that population ...

38 A method for optimal design of a threading scoring function
Jadwiga R. Bieńkowska, Robert G. Rogers, Temple F. Smith
April 1999 **Proceedings of the third annual international conference on Computational molecular biology**
Full text available: pdf(1.13 MB) Additional Information: full citation, references, index terms

39 Information access and retrieval: Using genetic algorithms to find suboptimal retrieval expert combinations
Holger Billhardt, Daniel Borrajo, Víctor Maojo
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**
Full text available: pdf(613.27 KB) Additional Information: full citation, abstract, references, index terms

A common problem of expert combination approaches in Information Retrieval (IR) is the selection of both, the experts to be combined and the combination function. In most studies

the experts are selected from a rather small set of candidates using some heuristics. Thus, only a reduced number of possible combinations is considered and other possibly better solutions are left out. In this paper we propose the use of genetic algorithms to find a suboptimal combination of experts for a document coll ...

Keywords: data fusion, genetic algorithms, information retrieval

40 A class of edit kernels for SVMs to predict translation initiation sites in eukaryotic mRNAs

Haifeng Li, Tao Jiang

March 2004 **Proceedings of the eighth annual international conference on Computational molecular biology**

Full text available: pdf(151.57 KB) Additional Information: full citation, abstract, references, index terms

The prediction of *translation initiation sites* (TISs) in eukaryotic mRNAs has been a challenging problem in computational molecular biology. In this paper, we present a new algorithm to recognize TISs with a very high accuracy. Our algorithm includes two novel ideas. First, we introduce a class of new sequence-similarity kernels based on string edit, called the *edit kernels*, for use with *support vector machines* (SVMs) in a discriminative approach to predict TISs. The edit ke ...

Keywords: edit distance, mRNA, machine learning, positive definite kernel, support vector machine, translation initiation site

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41 VLSI cell placement techniques

K. Shahookar, P. Mazumder

June 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 2

Full text available: pdf(5.28 MB) Additional Information: full citation, abstract, references, citings, index terms, review

VLSI cell placement problem is known to be NP complete. A wide repertoire of heuristic algorithms exists in the literature for efficiently arranging the logic cells on a VLSI chip. The objective of this paper is to present a comprehensive survey of the various cell placement techniques, with emphasis on standard cell and macro placement. Five major algorithms for placement are discussed: simulated annealing, force-directed placement, min-cut placement, placement by numerical optimization, a ...

Keywords: VLSI, floor planning, force-directed placement, gate array, genetic algorithm, integrated circuits, layout, min-cut, physical design, placement, simulated annealing, standard cell

42 Finding short DNA motifs using permuted markov models

Xiaoyue Zhao, Haiyan Huang, Terence P. Speed

March 2004 **Proceedings of the eighth annual international conference on Computational molecular biology**

Full text available: pdf(208.95 KB) Additional Information: full citation, abstract, references, index terms

Many short DNA motifs such as transcription factor binding sites (TFBS) and splice sites exhibit strong local as well as non-local dependence. We introduce permuted variable length Markov models (PVLMM) which could capture the potentially important dependencies among positions, and apply them to the problem of detecting splice and TFB sites. They have been satisfactory from the viewpoint of prediction performance, and also give ready biological interpretations of the sequence dependence observed ...

Keywords: Jeffreys mixture, maximal dependence decomposition, model selection, permuted variable length Markov models, splice sites, transcription factor binding sites, weight matrix models

43 An empirical study of non-binary genetic algorithm-based neural approaches for

classification
Parag C. Pendharkar, James A. Rodger
January 1999 **Proceeding of the 20th international conference on Information Systems**
Full text available: pdf(192.45 KB) Additional Information: full citation, references, citings, index terms

44 Manufacturing applications: Simulation optimization in manufacturing analysis: a simulation-optimization approach using genetic search for supplier selection
Hongwei Ding, Lyès Benyoucef, Xiaolan Xie
December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**
Full text available: pdf(339.90 KB) Additional Information: full citation, abstract, references

The paper presents a simulation-optimization approach using genetic algorithm to the supplier selection problem. The problem consists in selecting a portfolio of suppliers from a set of pre-selected candidates. The supplier selection is a multi-criteria problem that includes both qualitative and quantitative criteria. In order to select the best suppliers it is crucial to make a trade off between these tangible and intangible criteria, some of which may be contradictory. The proposed approach ...

45 Using genetic algorithms to inductively reason with cases in the legal domain
Anandeep S. Pannu
May 1995 **Proceedings of the fifth international conference on Artificial intelligence and law**
Full text available: pdf(972.17 KB) Additional Information: full citation, references, citings, index terms

46 A maximum entropy approach to species distribution modeling
Steven J. Phillips, Miroslav Dudík, Robert E. Schapire
July 2004 **Twenty-first international conference on Machine learning**
Full text available: pdf(163.78 KB) Additional Information: full citation, abstract, references

We study the problem of modeling species geographic distributions, a critical problem in conservation biology. We propose the use of maximum-entropy techniques for this problem, specifically, sequential-update algorithms that can handle a very large number of features. We describe experiments comparing maxent with a standard distribution-modeling tool, called GARP, on a dataset containing observation data for North American breeding birds. We also study how well maxent performs as a function of ...

47 Evolutionary computing and optimization: Issues in parallelizing multiobjective evolutionary algorithms for real world applications
David A. Van Veldhuizen, Jesse B. Zydallis, Gary B. Lamont
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**
Full text available: pdf(862.18 KB) Additional Information: full citation, abstract, references, index terms

The concepts of efficiency and effectiveness must be addressed in conducting research into using a Evolutionary Algorithm (EA) for optimization problems. The increased use of evolutionary approaches for real-world applications, containing multiple objectives and high dimensionality, has led to the design and generation of a number of Multiobjective Evolutionary Algorithms (MOEA). When analyzing these algorithms, the issues of effectiveness and efficiency are extremely important and typically dri ...

Keywords: multiobjective evolutionary algorithm, parallel algorithms

48 Combining phylogenetic and hidden Markov models in biosequence analysis
Adam Siepel, David Haussler
April 2003 **Proceedings of the seventh annual international conference on Computational molecular biology**
Full text available: pdf(294.94 KB) Additional Information: full citation, abstract, references, citings, index terms

A few models have appeared in recent years that consider not only the way substitutions occur through evolutionary history at each site of a genome, but also the way the process changes from one site to the next. These models combine phylogenetic models of molecular evolution, which apply to individual sites, and hidden Markov models, which allow for changes from site to site. Besides improving the realism of ordinary phylogenetic models, they are potentially very powerful tools for inference an ...

Keywords: context-sensitive substitution, maximum likelihood

49 Contributed articles: Genetic subtyping using cluster analysis
Tom Burr, James R. Gattiker, Greggory S. LaBerge
July 2001 **ACM SIGKDD Explorations Newsletter**, Volume 3 Issue 1
Full text available: pdf(984.40 KB) Additional Information: full citation, abstract, references

In this paper we (1) describe state-of-the-art methods to identify clusters in DNA sequence data for taxonomic analysis; (2) describe a new method with better scaling properties based on model-based clustering, and (3) present examples using the nucleoprotein and hemagglutin regions of influenza and the *env* and *gag* regions of human immunodeficiency virus (HIV).

Keywords: DNA sequence analysis, HIV, influenza, model-based clustering, phylogenetic trees

50 Genetic algorithm for fuzzy modeling of robotic manipulators
Trung T. Pham
February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**
Full text available: pdf(440.80 KB) Additional Information: full citation, references, index terms

51 Applying online gradient descent search to genetic programming for object recognition
Will Smart, Mengjie Zhang
January 2004 **Proceedings of the second workshop on Australasian information security, Data Mining and Web Intelligence, and Software Internationalisation - Volume 32**
Full text available: pdf(207.11 KB) Additional Information: full citation, abstract, references

This paper describes an approach to the use of gradient descent search in genetic programming (GP) for object classification problems. In this approach, pixel statistics are used to form the feature terminals and a random generator produces numeric terminals. The four arithmetic operators and a conditional operator form the function set and the classification accuracy is used as the fitness function. In particular, gradient descent search is introduced to the GP mechanism and is embedded into th ...

Keywords: data mining, genetic programming, machine learning, object classification

52 Evaluation of prediction models for marketing campaigns
Saharon Rosset, Einat Neumann, Uri Eick, Nurit Vatnik, Izhak Idan
August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: pdf(634.58 KB) Additional Information: full citation, abstract, references, citings, index terms

We consider prediction-model evaluation in the context of marketing-campaign planning. In order to evaluate and compare models with specific campaign objectives in mind, we need to concentrate our attention on the appropriate evaluation-criteria. These should portray the model's ability to score accurately and to identify the relevant target population. In this paper we discuss some applicable model-evaluation and selection criteria, their relevance for campaign planning, their robustness under ...

Keywords: Confidence Intervals, Marketing Campaigns, Model Evaluation, Performance Measures

53 Use of genetic algorithms for optimization in digital control of dynamic systems
Rajeshwar Prasad Srivastava
April 1992 **Proceedings of the 1992 ACM annual conference on Communications**
Full text available: pdf(494.85 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a method to optimize proportional-integral-derivative (PID) control parameters, given a discrete model of the controlled process. This method is based on Holland's genetic algorithm (GA). It does not require a mathematical model of the controller to represent its dynamic behavior. It gives a solution that is not only optimal but also meets engineering constraints. Genetic algorithms do a global search without derivatives for points in a multi-dimensional search space. Th ...

54 Meta optimization: improving compiler heuristics with machine learning
Mark Stephenson, Saman Amarasinghe, Martin Martin, Una-May O'Reilly
May 2003 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2003 conference on Programming language design and implementation**, Volume 38 Issue 5
Full text available: pdf(302.23 KB) Additional Information: full citation, abstract, references, citings, index terms

Compiler writers have crafted many heuristics over the years to approximately solve NP-hard problems efficiently. Finding a heuristic that performs well on a broad range of applications is a tedious and difficult process. This paper introduces Meta Optimization, a methodology for automatically fine-tuning compiler heuristics. Meta Optimization uses machine-learning techniques to automatically search the space of compiler heuristics. Our techniques reduce compiler design complexity by relieving c ...

Keywords: compiler heuristics, genetic programming, machine learning, priority functions

55 Poster papers: Mining complex models from arbitrarily large databases in constant time
Geoff Hulten, Pedro Domingos
July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: pdf(853.58 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we propose a scaling-up method that is applicable to essentially any induction algorithm based on discrete search. The result of applying the method to an algorithm is

that its running time becomes independent of the size of the database, while the decisions made are essentially identical to those that would be made given infinite data. The method works within pre-specified memory limits and, as long as the data is iid, only requires accessing it sequentially. It gives anytime resu ...

Keywords: Bayesian networks, Hoeffding bounds, discrete search, scalable learning algorithms, subsampling

56 Numerically estimating internal models of dynamic virtual objects

G. Robles-De-La-Torre, R. Sekuler

October 2004 **ACM Transactions on Applied Perception (TAP)**, Volume 1 Issue 2

Full text available: pdf(584.66 KB) Additional Information: full citation, abstract, references, index terms

Precise manipulation of objects is ordinarily limited by visual, kinesthetic, motor, and cognitive factors. Specially designed virtual objects and tasks minimize such limitations, making it possible to isolate and estimate the internal model that guides subjects' performance. Subjects manipulated a computer-generated virtual object (*vO*), attempting to align *vO* to a target whose position changed randomly every 10 s. To analyze the control actions subjects use while manipulating the ...

Keywords: Dynamics, human cognition, human information processing, ideal performer, internal model, virtual object, virtual reality

57 Learning the Kernel Matrix with Semidefinite Programming

Gert R. G. Lanckriet, Nello Cristianini, Peter Bartlett, Laurent El Ghaoui, Michael I. Jordan

August 2004 **The Journal of Machine Learning Research**, Volume 5

Full text available: pdf(467.50 KB) Additional Information: full citation, abstract, index terms

Kernel-based learning algorithms work by embedding the data into a Euclidean space, and then searching for linear relations among the embedded data points. The embedding is performed implicitly, by specifying the inner products between each pair of points in the embedding space. This information is contained in the so-called kernel matrix, a symmetric and positive semidefinite matrix that encodes the relative positions of all points. Specifying this matrix amounts to specifying the geometry of t ...

58 World Wide Web: Mining the web for answers to natural language questions

Dragomir R. Radev, Hong Qi, Zhiping Zheng, Sasha Blair-Goldensohn, Zhu Zhang, Weiguo Fan, John Prager

October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Full text available: pdf(1.47 MB) Additional Information: full citation, abstract, references, citings, index terms

The web is now becoming one of the largest information and knowledge repositories. Many large scale search engines (Google, Fast, Northern Light, etc.) have emerged to help users find information. In this paper, we study how we can effectively use these existing search engines to mine the Web and discover the "correct" answers to factual natural language questions.We propose a probabilistic algorithm called *QASM* (Question Answering using Statistical Models) that learns the best query para ...

59 Special issue on ICML: Policy search using paired comparisons

Malcolm J. A. Strens, Andrew W. Moore

March 2003 **The Journal of Machine Learning Research**, Volume 3

Full text available: pdf(323.16 KB) Additional Information: full citation, abstract, index terms

Direct policy search is a practical way to solve reinforcement learning (RL) problems involving continuous state and action spaces. The goal becomes finding policy parameters that maximize a noisy objective function. The Pegasus method converts this stochastic optimization problem into a deterministic one, by using fixed start states and fixed random number sequences for comparing policies (Ng and Jordan, 2000). We evaluate Pegasus, and new paired comparison methods, using the mountain car probl ...

60 Bioinformatics (BIO): Identification of fundamental building blocks in protein sequences using statistical association measures

Deborah Weisser, Judith Klein-Seetharaman
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: pdf(650.19 KB) Additional Information: full citation, abstract, references, index terms

Protein sequence data is abundant, yet derivation of structural features from sequence alone is generally restricted to prediction of domain architecture, secondary structure elements and motifs. Precise feature boundaries cannot be determined reliably, and it is unknown to what extent these features constitute fundamental building blocks of protein sequences, a question with particular relevance to protein folding. Here we propose a statistical approach using mutual information, a measure of as ...

Keywords: G-protein coupled receptors, feature prediction, mutual information, rhodopsin

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41 VLSI cell placement techniques

K. Shahookar, P. Mazumder

June 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 2

Full text available: pdf(5.28 MB) Additional Information: full citation, abstract, references, citings, index terms, review

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42 Finding short DNA motifs using permuted markov models

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44 Manufacturing applications: Simulation optimization in manufacturing analysis: a simulation-optimization approach using genetic search for supplier selection
Hongwei Ding, Lyès Benyoucef, Xiaolan Xie
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46 A maximum entropy approach to species distribution modeling
Steven J. Phillips, Miroslav Dudík, Robert E. Schapire
July 2004 **Twenty-first international conference on Machine learning**
Full text available: pdf(163.78 KB) Additional Information: full citation, abstract, references

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Keywords: multiobjective evolutionary algorithm, parallel algorithms

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Keywords: context-sensitive substitution, maximum likelihood

49 Contributed articles: Genetic subtyping using cluster analysis
Tom Burr, James R. Gattiker, Greggory S. LaBerge
July 2001 **ACM SIGKDD Explorations Newsletter**, Volume 3 Issue 1
Full text available: pdf(984.40 KB) Additional Information: full citation, abstract, references

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Keywords: DNA sequence analysis, HIV, influenza, model-based clustering, phylogenetic trees

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Full text available: pdf(440.80 KB) Additional Information: full citation, references, index terms

51 Applying online gradient descent search to genetic programming for object recognition
Will Smart, Mengjie Zhang
January 2004 **Proceedings of the second workshop on Australasian information security, Data Mining and Web Intelligence, and Software Internationalisation - Volume 32**
Full text available: pdf(207.11 KB) Additional Information: full citation, abstract, references

This paper describes an approach to the use of gradient descent search in genetic programming (GP) for object classification problems. In this approach, pixel statistics are used to form the feature terminals and a random generator produces numeric terminals. The four arithmetic operators and a conditional operator form the function set and the classification accuracy is used as the fitness function. In particular, gradient descent search is introduced to the GP mechanism and is embedded into th ...

Keywords: data mining, genetic programming, machine learning, object classification

52 Evaluation of prediction models for marketing campaigns

Saharon Rosset, Einat Neumann, Uri Eick, Nurit Vatnik, Izhak Idan

August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(634.58 KB) Additional Information: full citation, abstract, references, citings, index terms

We consider prediction-model evaluation in the context of marketing-campaign planning. In order to evaluate and compare models with specific campaign objectives in mind, we need to concentrate our attention on the appropriate evaluation-criteria. These should portray the model's ability to score accurately and to identify the relevant target population. In this paper we discuss some applicable model-evaluation and selection criteria, their relevance for campaign planning, their robustness under ...

Keywords: Confidence Intervals, Marketing Campaigns, Model Evaluation, Performance Measures

53 Use of genetic algorithms for optimization in digital control of dynamic systems

Rajeshwar Prasad Srivastava

April 1992 **Proceedings of the 1992 ACM annual conference on Communications**

Full text available: pdf(494.85 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a method to optimize proportional-integral-derivative (PID) control parameters, given a discrete model of the controlled process. This method is based on Holland's genetic algorithm (GA). It does not require a mathematical model of the controller to represent its dynamic behavior. It gives a solution that is not only optimal but also meets engineering constraints. Genetic algorithms do a global search without derivatives for points in a multi-dimensional search space. Th ...

54 Meta optimization: improving compiler heuristics with machine learning

Mark Stephenson, Saman Amarasinghe, Martin Martin, Una-May O'Reilly

May 2003 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2003 conference on Programming language design and implementation**, Volume 38 Issue 5

Full text available: pdf(302.23 KB) Additional Information: full citation, abstract, references, citings, index terms

Compiler writers have crafted many heuristics over the years to approximately solve NP-hard problems efficiently. Finding a heuristic that performs well on a broad range of applications is a tedious and difficult process. This paper introduces Meta Optimization, a methodology for automatically fine-tuning compiler heuristics. Meta Optimization uses machine-learning techniques to automatically search the space of compiler heuristics. Our techniques reduce compiler design complexity by relieving c ...

Keywords: compiler heuristics, genetic programming, machine learning, priority functions

55 Poster papers: Mining complex models from arbitrarily large databases in constant time

Geoff Hulten, Pedro Domingos

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(853.58 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we propose a scaling-up method that is applicable to essentially any induction algorithm based on discrete search. The result of applying the method to an algorithm is

that its running time becomes independent of the size of the database, while the decisions made are essentially identical to those that would be made given infinite data. The method works within pre-specified memory limits and, as long as the data is iid, only requires accessing it sequentially. It gives anytime resu ...

Keywords: Bayesian networks, Hoeffding bounds, discrete search, scalable learning algorithms, subsampling

56 Numerically estimating internal models of dynamic virtual objects

G. Robles-De-La-Torre, R. Sekuler

October 2004 **ACM Transactions on Applied Perception (TAP)**, Volume 1 Issue 2

Full text available: pdf(584.66 KB) Additional Information: full citation, abstract, references, index terms

Precise manipulation of objects is ordinarily limited by visual, kinesthetic, motor, and cognitive factors. Specially designed virtual objects and tasks minimize such limitations, making it possible to isolate and estimate the internal model that guides subjects' performance. Subjects manipulated a computer-generated virtual object (*vO*), attempting to align *vO* to a target whose position changed randomly every 10 s. To analyze the control actions subjects use while manipulating the ...

Keywords: Dynamics, human cognition, human information processing, ideal performer, internal model, virtual object, virtual reality

57 Learning the Kernel Matrix with Semidefinite Programming

Gert R. G. Lanckriet, Nello Cristianini, Peter Bartlett, Laurent El Ghaoui, Michael I. Jordan

August 2004 **The Journal of Machine Learning Research**, Volume 5

Full text available: pdf(467.50 KB) Additional Information: full citation, abstract, index terms

Kernel-based learning algorithms work by embedding the data into a Euclidean space, and then searching for linear relations among the embedded data points. The embedding is performed implicitly, by specifying the inner products between each pair of points in the embedding space. This information is contained in the so-called kernel matrix, a symmetric and positive semidefinite matrix that encodes the relative positions of all points. Specifying this matrix amounts to specifying the geometry of t ...

58 World Wide Web: Mining the web for answers to natural language questions

Dragomir R. Radev, Hong Qi, Zhiping Zheng, Sasha Blair-Goldensohn, Zhu Zhang, Weiguo Fan, John Prager

October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Full text available: pdf(1.47 MB) Additional Information: full citation, abstract, references, citings, index terms

The web is now becoming one of the largest information and knowledge repositories. Many large scale search engines (Google, Fast, Northern Light, etc.) have emerged to help users find information. In this paper, we study how we can effectively use these existing search engines to mine the Web and discover the "correct" answers to factual natural language questions.We propose a probabilistic algorithm called *QASM* (Question Answering using Statistical Models) that learns the best query para ...

59 Special issue on ICML: Policy search using paired comparisons

Malcolm J. A. Strens, Andrew W. Moore

March 2003 **The Journal of Machine Learning Research**, Volume 3

Full text available: pdf(323.16 KB) Additional Information: full citation, abstract, index terms

Direct policy search is a practical way to solve reinforcement learning (RL) problems involving continuous state and action spaces. The goal becomes finding policy parameters that maximize a noisy objective function. The Pegasus method converts this stochastic optimization problem into a deterministic one, by using fixed start states and fixed random number sequences for comparing policies (Ng and Jordan, 2000). We evaluate Pegasus, and new paired comparison methods, using the mountain car probl ...

60 Bioinformatics (BIO): Identification of fundamental building blocks in protein sequences using statistical association measures

Deborah Weisser, Judith Klein-Seetharaman

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: pdf(650.19 KB) Additional Information: full citation, abstract, references, index terms

Protein sequence data is abundant, yet derivation of structural features from sequence alone is generally restricted to prediction of domain architecture, secondary structure elements and motifs. Precise feature boundaries cannot be determined reliably, and it is unknown to what extent these features constitute fundamental building blocks of protein sequences, a question with particular relevance to protein folding. Here we propose a statistical approach using mutual information, a measure of as ...

Keywords: G-protein coupled receptors, feature prediction, mutual information, rhodopsin

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2	6,768,982	Method and system for creating and using knowledge patterns
3	6,721,718	System for intelligent control based on soft computing
4	6,701,236	Intelligent mechatronic control suspension system based on soft computing
5	6,678,669	Method for selecting medical and biochemical diagnostic tests using neural network-related applications
6	6,678,548	Unified probabilistic framework for predicting and detecting seizure onsets in the brain and multitherapeutic device
7	6,650,779	Method and apparatus for analyzing an image to detect and identify patterns
8	6,650,766	Method for combining automated detections from medical images with observed detections of a human interpreter
9	6,609,060	System for intelligent control of an engine based on soft computing
10	6,581,047	Method for a sequential prediction of binary element's state in a binary process and the system for the method implementation
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